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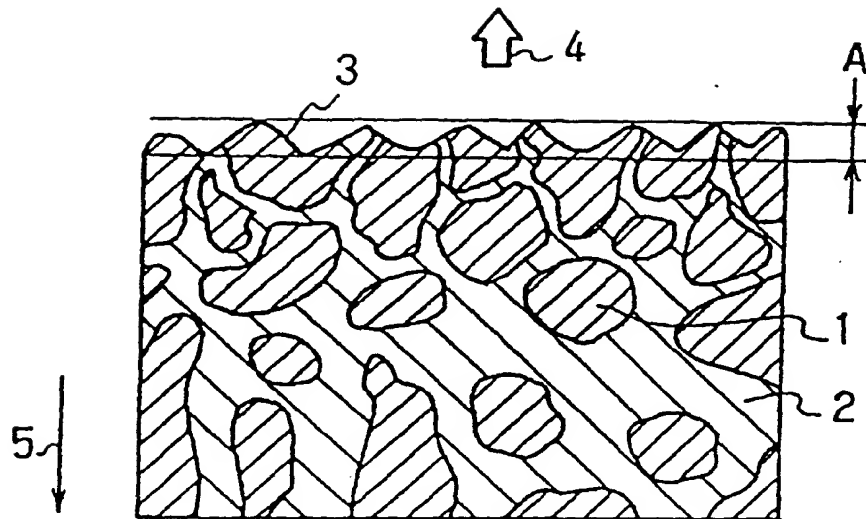


Fig. 1

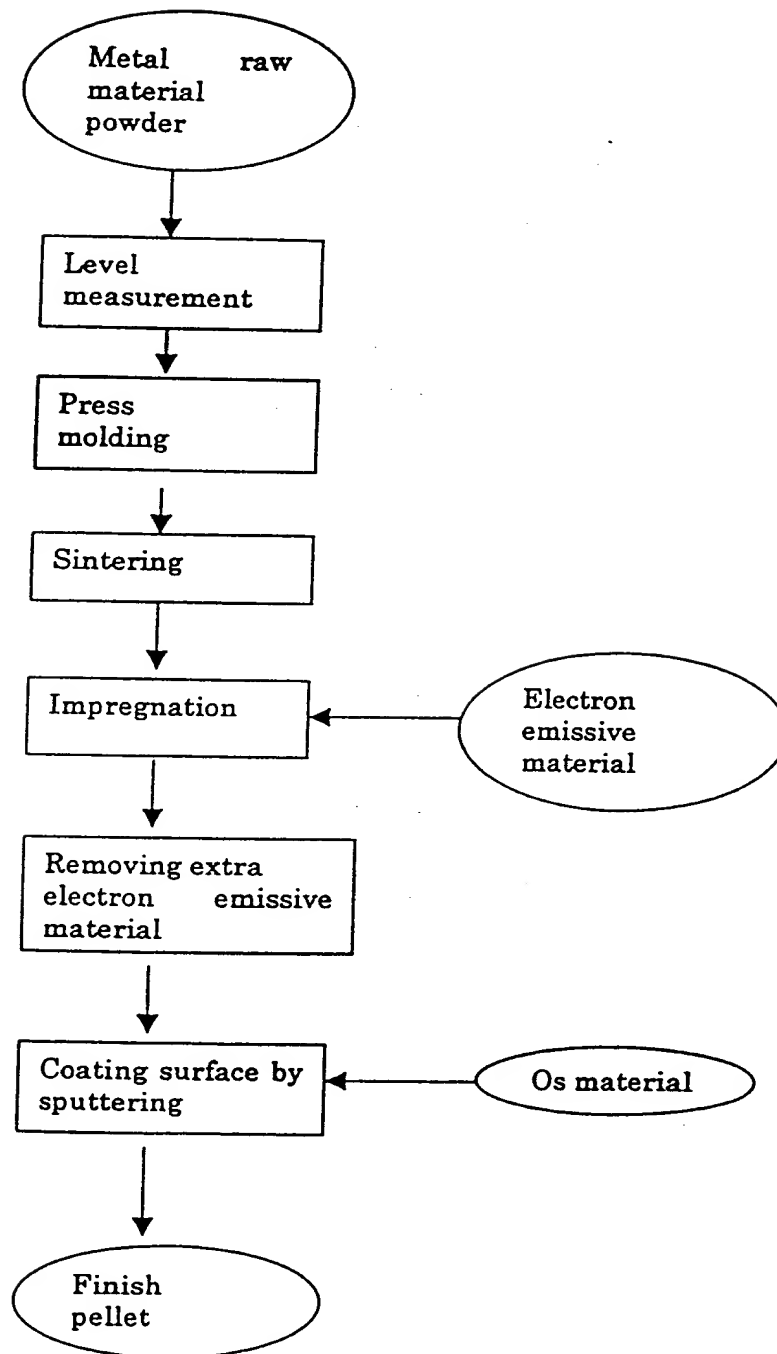


Fig. 2

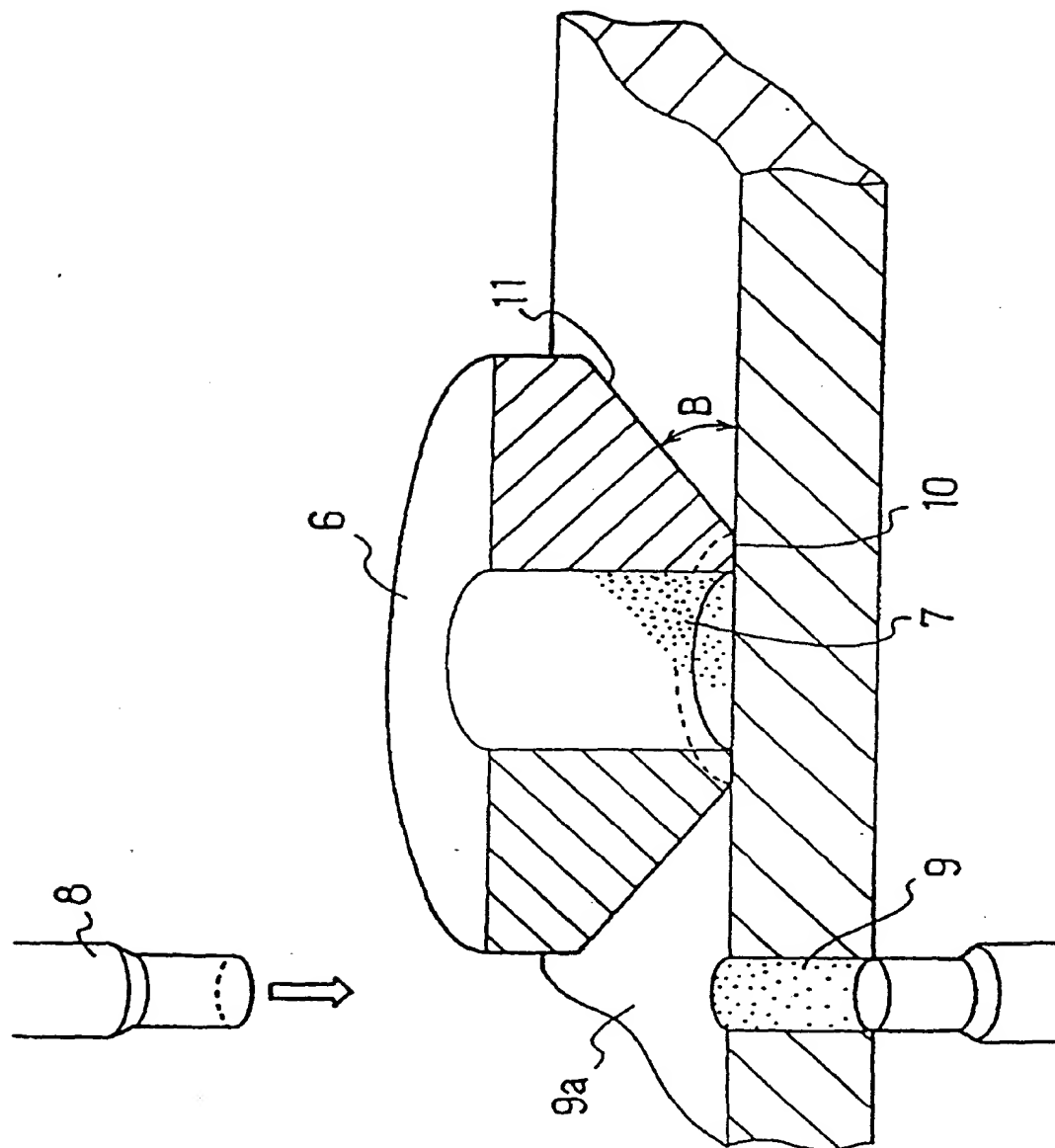


Fig. 3

Amount of evaporation of electron emissive material (relative value)

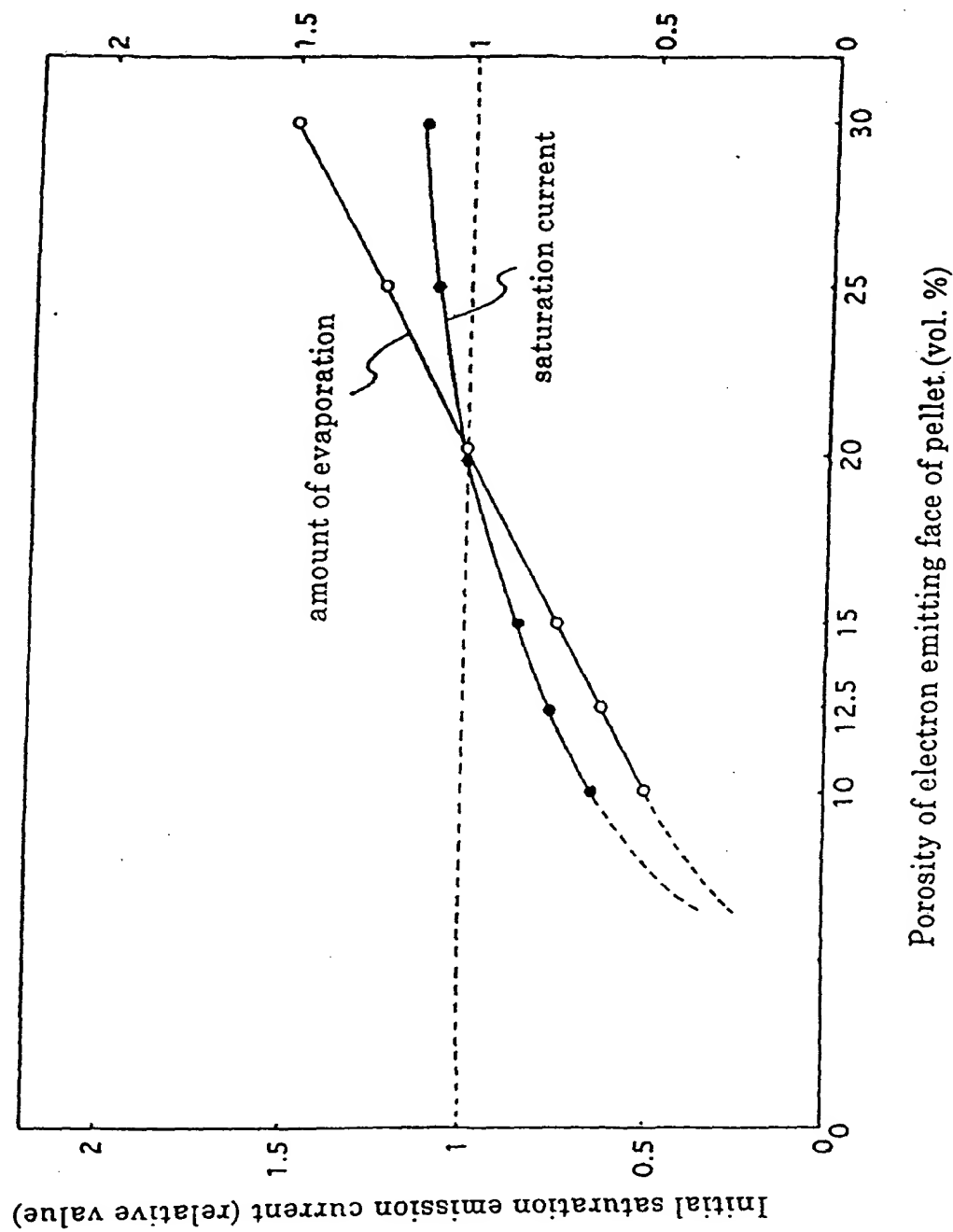


Fig. 4

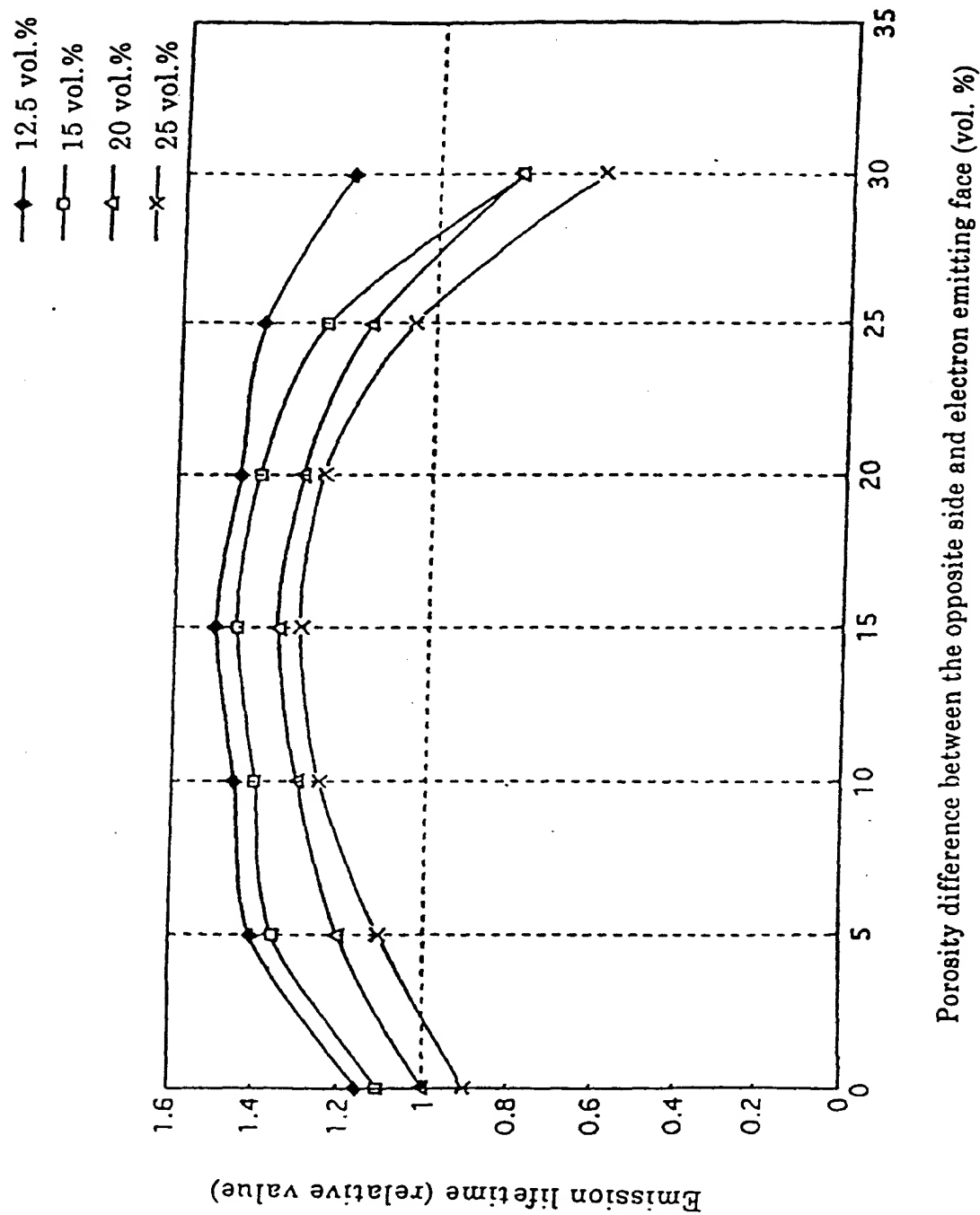


Fig. 5

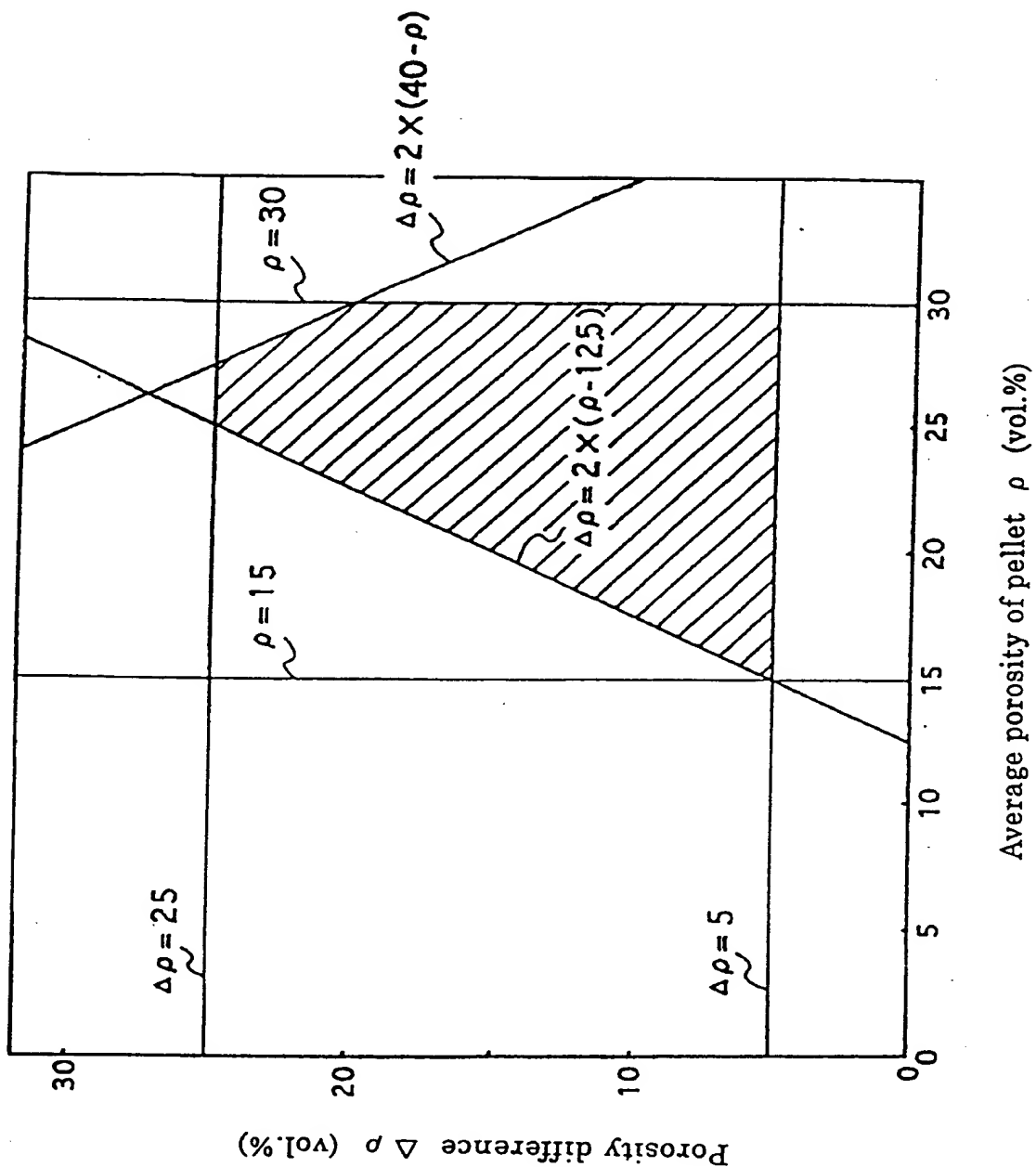


Fig. 6

Figure 1 is a scatter plot with a line of best fit showing the relationship between surface roughness and saturation emission current. The y-axis is labeled 'Saturation emission current (relative value)' and ranges from 0 to 1.5. The x-axis is labeled 'Surface roughness of electron emitting face of pellet (μm)' and has four categories: a, b, c, and d. A dashed horizontal line is drawn at y = 1.0. A solid line connects the mean values for each category. The data points are represented by solid circles with vertical error bars. The mean values are approximately: a = 1.0, b = 1.15, c = 1.15, and d = 1.2. The error bars for category d are significantly larger than for the other categories.

Surface roughness (μm)	Mean Saturation emission current (relative value)	Approximate range of values
a	1.0	0.9 - 1.1
b	1.15	1.0 - 1.25
c	1.15	1.0 - 1.25
d	1.2	1.0 - 1.3

Fig. 7

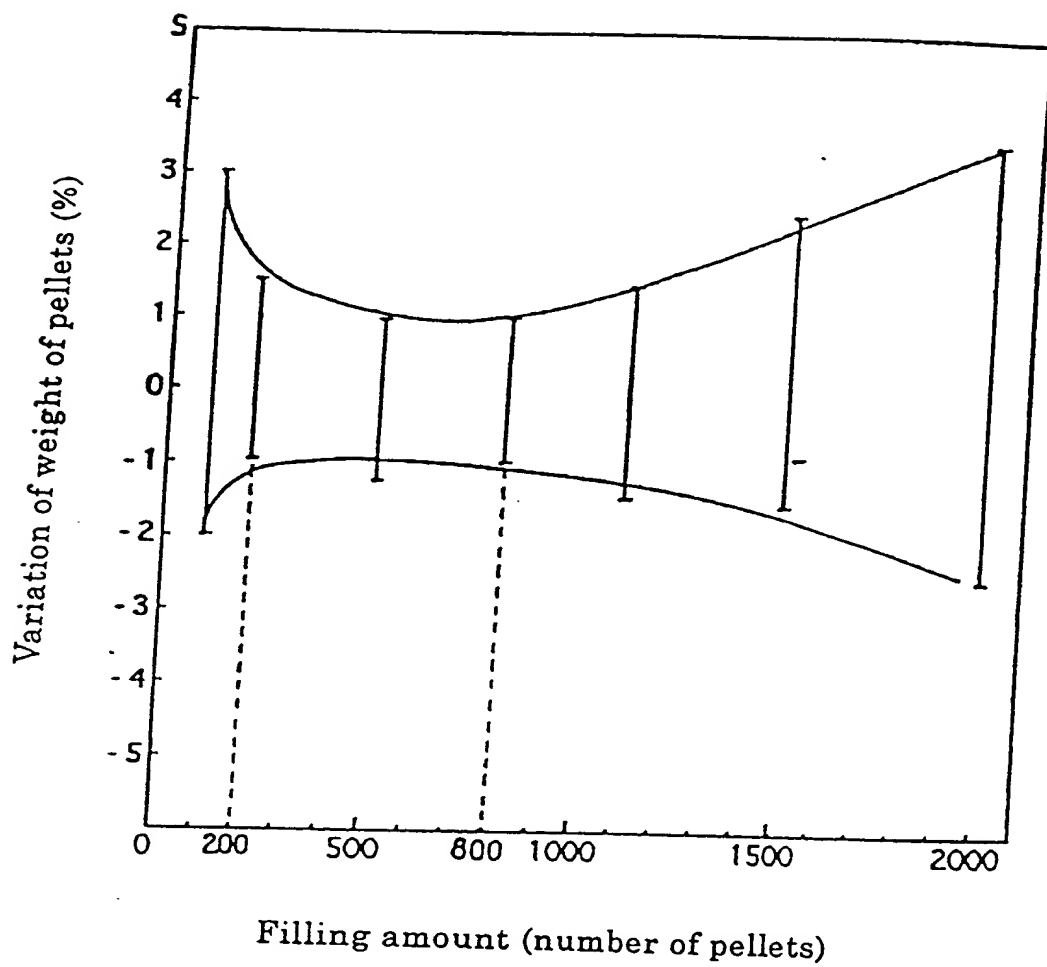


Fig. 8

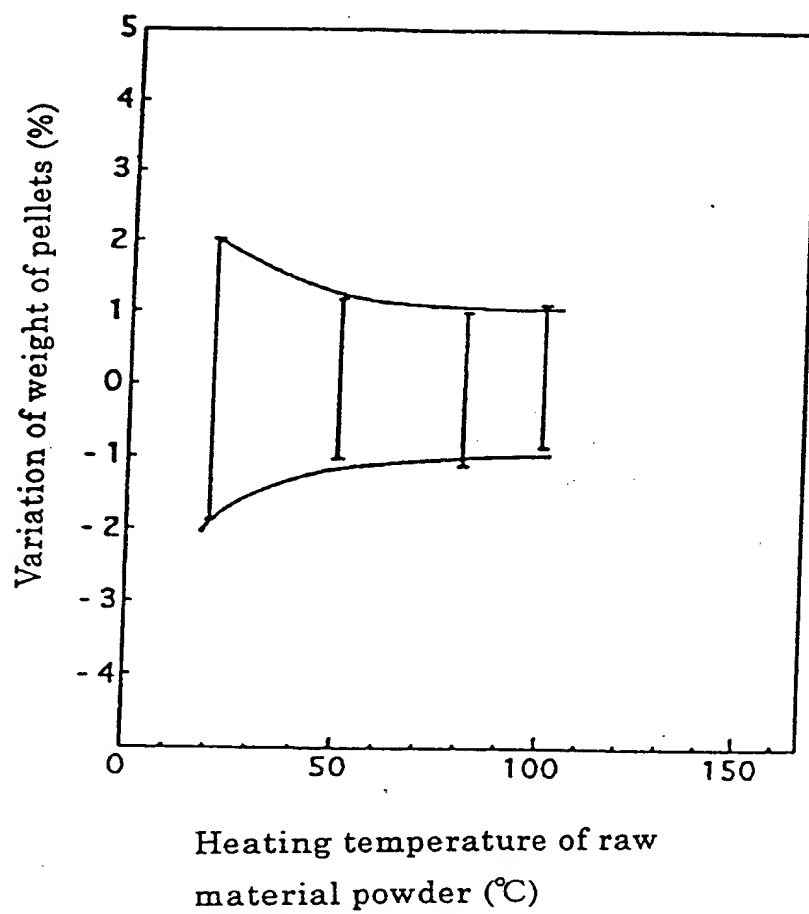


Fig. 9

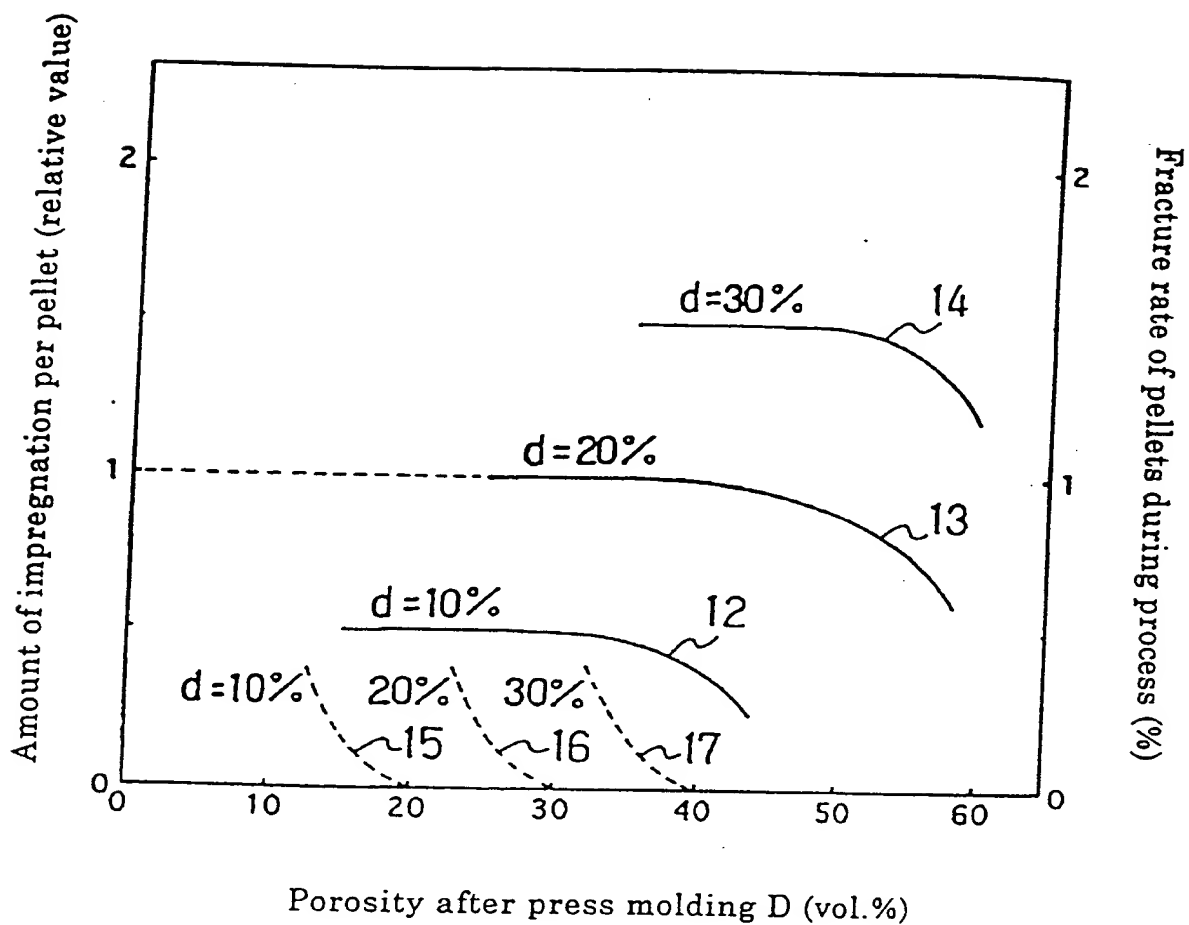


Fig. 10

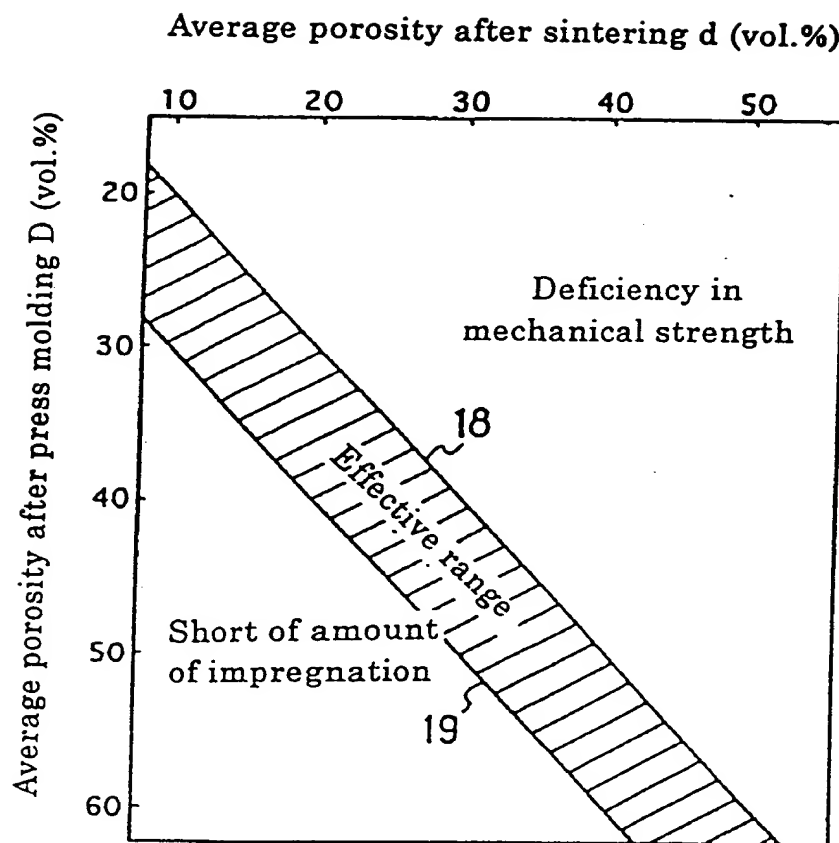


Fig. 11

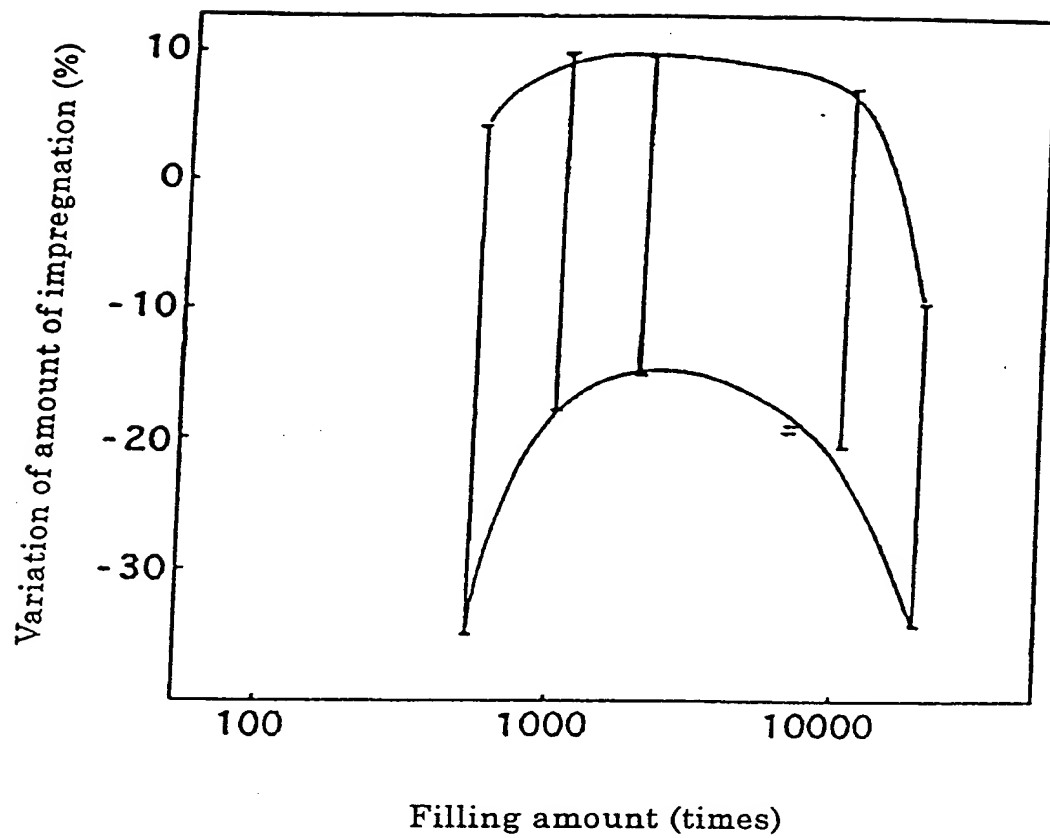


Fig. 12

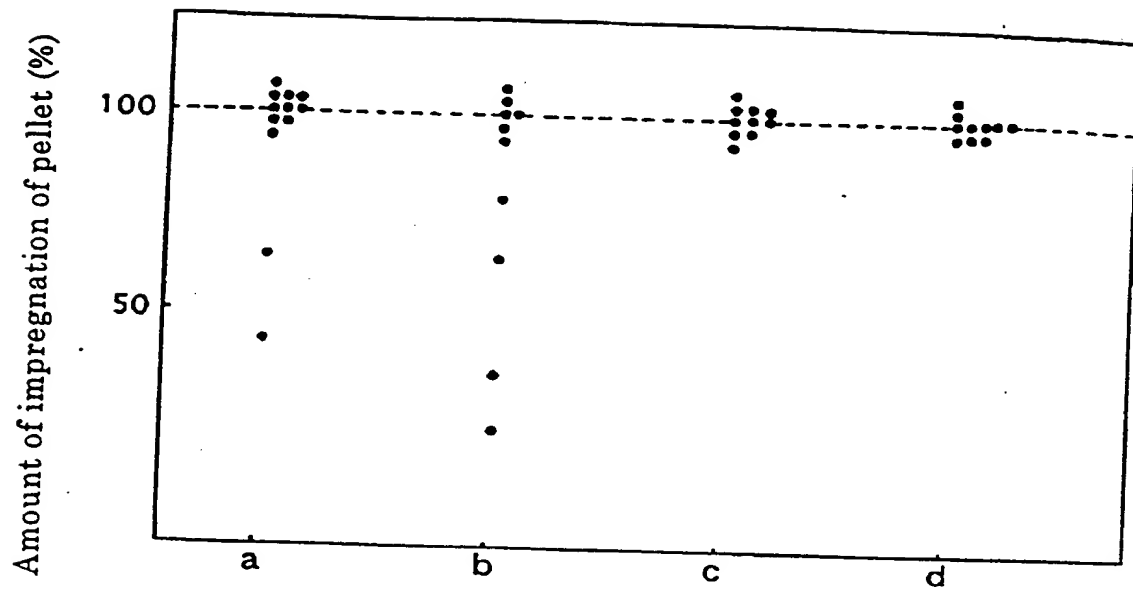


Fig. 13 (A)

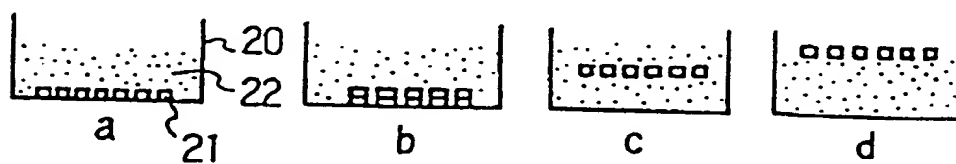


Fig. 13 (B)

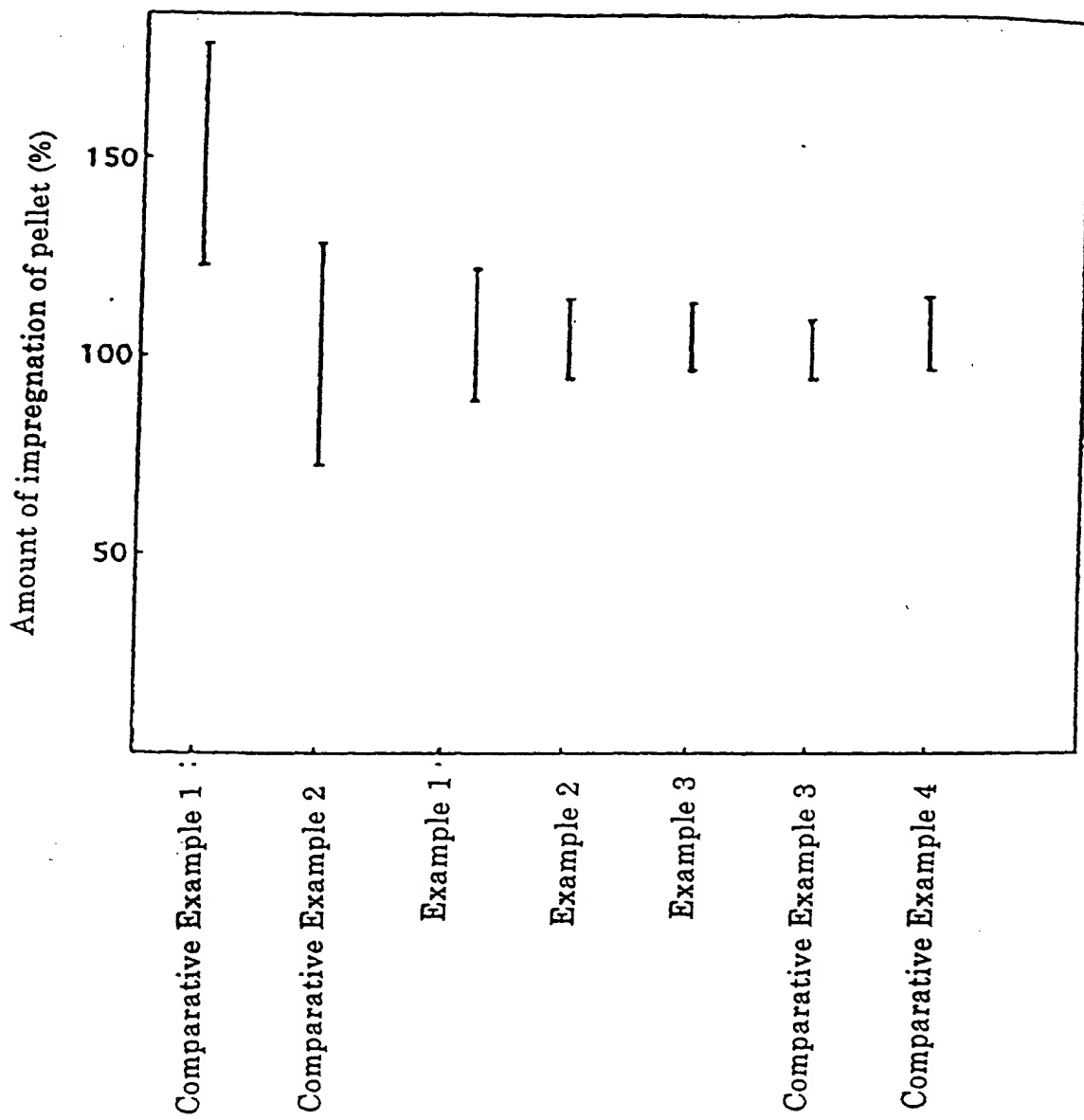


Fig. 14